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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,667	03/25/2004	Luca Bertamini	56681 . US	7825
7590 05/23/2006			EXAMINER	
David E. LaRose, Esq.			TENTONI, LEO B	
c/o Luedeka, Neely and Graham, PC P.O. Box 1871 Knoxville, TN 37901			ART UNIT	PAPER NUMBER
			1732	
			DATE MAILED: 05/23/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/809,667	BERTAMINI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Leo B. Tentoni	1732				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on <u>13 A</u>	pril 2006					
2a) This action is FINAL . 2b) ⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	•					
Disposition of Claims 4) □ Claim(s) 1-11 and 17-27 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-11 and 17-27 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		• • •				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date J.S. Patent and Trademark Office		atent Application (PTO-152)				
BES. 555 (B. 6.5)	ction Summary Pa	rt of Paper No./Mail Date 20060519				

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DETAILED ACTION

1. The finality of the last Office Action is withdrawn, and prosecution is hereby reopened.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

 Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claims 1-11 and 17-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mallonee (U.S. Patent 5,811,040 A).

Mallonee (see the entire document, in particular, col. 2, lines 3-19; col. 2, line 53 to col. 8, line 17; Examples) teaches a process of making fibers and yarns and for improving the mechanical properties of yarns as set forth in the instant claims, including making a fiber having a polyolefin matrix and discontinuous fibrils of fibril forming polymer dispersed in the polyolefin matrix. Regarding the depth (or length) to hydraulic diameter ratio, this ratio is a result-effective variable (i.e., this ratio achieves the desired fiber dyeability result) and it would have been obvious to one of ordinary skill in the art at the time the invention was made to optimize this ratio in view of Mallonee principally in order to make a desired final product (In re Antonie, 559 F.2d 618, 195 USPQ 6 (CCPA 1977); In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980)).

5. Claims 1-11 and 17-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mallonee (U.S. Patent 5,811,040 A) in combination with Sawyer et al (U.S. Patent 5,082,899 A).

Mallonee (see the entire document, in particular, col. 2, lines 3-19; col. 2, line 53 to col. 8, line 17; Examples) teaches a process of making fibers and yarns and for improving the mechanical properties of yarns as set forth in the instant

claims, including making a fiber having a polyolefin matrix and discontinuous fibrils of fibril forming polymer dispersed in the polyolefin matrix. Mallonee does not explicitly teach a depth (or length) to hydraulic diameter ratio as claimed, which is taught by Sawyer et al (see the entire document, in particular, col. 7, lines 15-18; Example 1) and would have been obvious to one of ordinary skill in the art at the time the invention was made in the process of Mallonee in view of Sawyer et al principally in order to make a desired final product.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Les B. Tentoni

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